



2815

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

James J. Howarth

**Serial No.:** 09/944,472

**Filed:** August 30, 2001

**For:** METHOD OF BALL GRID ARRAY  
(BGA) ALIGNMENT, METHOD OF  
TESTING, ALIGNMENT APPARATUS  
AND SEMICONDUCTOR DEVICE  
ASSEMBLY

**Confirmation No.:** 1559

**Examiner:** J. Diaz

**Group Art Unit:** 2815

**Attorney Docket No.:** 2269-4348US  
(MUEI-0547.00/US)

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

May 29, 2003  
Date

Signature

Deidra J. Pfeil  
Name (Type/Print)

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an

admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

| <u>U.S. Patent Documents</u> |                         |                 |
|------------------------------|-------------------------|-----------------|
| <u>U.S. Patent No.</u>       | <u>Publication Date</u> | <u>Patentee</u> |
| 5,150,194                    | 09/1992                 | Brooks et al.   |
| 5,327,008                    | 07/1994                 | Djennas et al.  |
| 5,468,991                    | 11/1995                 | Lee et al.      |
| 5,728,601                    | 03/1998                 | Sato et al.     |
| 5,861,654                    | 01/1999                 | Johnson         |
| 6,198,172 B1                 | 03/2001                 | King et al.     |
| 6,242,817 B1                 | 06/2001                 | Grande et al.   |
| 6,420,195                    | 07/2002                 | King et al.     |
| 6,518,098                    | 02/2003                 | Corisis         |
| 6,548,827 B2                 | 04/2003                 | Irie            |

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits.

Serial No.: 09/944,472

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Respectfully submitted,

A handwritten signature in black ink, appearing to read "Bradley B. Jensen", followed by a horizontal line.

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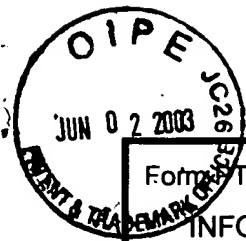
Date: May 29, 2003

BBJ/ps:djp

Enclosures: Form PTO-1449

Copy of documents cited

Document in ProLaw



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|---|---|---|
| Form PTO-1449<br><b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b><br><i>(Use several sheets if necessary)</i> | Docket Number (Optional)<br><b>4348US (MUEI-0547.00/US)</b> | Application Number<br><b>09/944,472</b> |
|   | Applicant <b>Jam s J. H warth</b>                           |   |
|   | Filing Date <b>August 30, 2001</b>                          | Group Art Unit <b>2815</b>              |

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE    | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--------------------|---------|----------------|-------|----------|-------------------------------|
|                     | 5,150,194          | 09/1992 | Brooks et al.  |       |          |                               |
|                     | 5,327,008          | 07/1994 | Djennas et al. |       |          |                               |
|                     | 5,468,991          | 11/1995 | Lee et al.     |       |          |                               |
|                     | 5,728,601          | 03/1998 | Sato et al.    |       |          |                               |
|                     | 5,861,654          | 01/1999 | Johnson        |       |          |                               |
|                     | 6,198,172 B1       | 03/2001 | King et al.    |       |          |                               |
|                     | 6,242,817 B1       | 06/2001 | Grande et al.  |       |          |                               |
|                     | 6,420,195          | 07/2002 | King et al.    |       |          |                               |
|                     | 6,518,098          | 02/2003 | Corisis        |       |          |                               |
|                     | 6,548,827 B2       | 04/2003 | Irie           |       |          |                               |
|                     |                    |         |                |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|  | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |    |
|--|--------------------|------|---------|-------|----------|-------------|----|
|  |                    |      |         |       |          | YES         | NO |
|  |                    |      |         |       |          |             |    |
|  |                    |      |         |       |          |             |    |
|  |                    |      |         |       |          |             |    |
|  |                    |      |         |       |          |             |    |
|  |                    |      |         |       |          |             |    |

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

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| EXAMINER | DATE CONSIDERED |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.